

WHAT IS CLAIMED IS:

1. A hydraulic shock absorbing apparatus of a vehicle provided with hydraulic shock absorbers at right and left sides of a wheel, comprising:

5 a compression side damping force generating structure for mainly generating a compression side damping force is provided in one hydraulic shock absorber, an expansion side damping force generating structure for mainly generating an expansion side damping force is provided in another hydraulic shock absorber, and the generation of  
10 the compression side damping force and the expansion side damping force is shared by the right and left hydraulic shock absorbers,

the one hydraulic shock absorber having

a vehicle body side tube and a wheel side tube which are slidably fitted to each other;

15 a damper having a damper cylinder and a piston rod in which a piston slidable within the damper cylinder is mountable to a leading end portion thereof, and structured such that the damper cylinder is mountable to an inner side of the wheel side tube and the piston rod is mountable to an inner side of the vehicle body side tube;

20 a piston rod side oil chamber and a piston side oil chamber sectioned within the damper cylinder by the piston;

an oil reservoir chamber disposed in an outer periphery of the damper cylinder; and

two oil passages provided in the piston, a compression side  
25 damping valve being provided in one oil passage, and a check valve closing during compression and opening during expansion being provided in the other oil passage, and

wherein a volume compensating oil passage of the piston rod communicating the piston rod side oil chamber with the oil reservoir chamber is provided.

- 5     2.     A hydraulic shock absorbing apparatus of a vehicle comprising:  
            hydraulic shock absorbers provided at both right and left sides  
            of a wheel;  
            each of the hydraulic shock absorbers comprising:  
            a vehicle body side tube and a wheel side tube being slidably  
10     fitted;  
            a damper constituted by a damper cylinder and a piston rod  
            having a piston slidable within the damper cylinder, the piston being  
            mountable to a leading end portion thereof, the damper cylinder being  
            mountable to an inner side of the wheel side tube, the piston rod  
15     being mountable to an inner side of the vehicle body side tube;  
            a piston rod side oil chamber receiving the piston rod and a  
            piston side oil chamber not receiving the piston rod are sectioned in  
            both sides of the piston;  
            two oil passages communicating with the two oil chambers  
20     being provided in the piston;  
            an oil reservoir chamber for compensating a volume of the  
            piston rod being provided in an outer periphery of the damper cylinder,  
            one of the hydraulic shock absorbers being provided with a  
            compression side damping valve in one oil passage of the piston, and  
25     being provided with a check valve closing at the time of compression  
            and opening at the time of expansion in another oil passage, and an oil  
            passage for compensating a volume of the piston rod communicated

with the oil reservoir chamber being provided in the piston rod side oil chamber,

wherein another of the hydraulic shock absorbers has an expansion side damping valve in one oil passage of the piston, a check  
5 valve closing at the time of expansion and opening at the time of compression in another oil passage, and an oil passage for compensating the volume of the piston rod communicated with the oil reservoir chamber is disposed in the piston side oil chamber.

10 3. A hydraulic shock absorbing apparatus of a vehicle according to claim 1, wherein a bypass oil passage communicating the oil chambers in both sides of the piston is disposed in the piston rod of each of the hydraulic shock absorbers, and a damping force adjusting valve is disposed in the bypass oil passage.

15 4. A hydraulic shock absorbing apparatus of a vehicle according to claim 2, wherein a bypass oil passage communicating the oil chambers in both sides of the piston is disposed in the piston rod of each of the hydraulic shock absorbers, and a damping force adjusting valve is  
20 disposed in the bypass oil passage.

5. A hydraulic shock absorbing apparatus of a vehicle according to claim 1, wherein the oil passage of the one hydraulic shock absorber is disposed in a side wall of the damper cylinder.

25 6. A hydraulic shock absorbing apparatus of a vehicle according to claim 2, wherein the oil passage of the one hydraulic shock absorber is

disposed in a side wall of the damper cylinder.

7. A hydraulic shock absorbing apparatus of a vehicle according to claim 3, wherein the oil passage of the one hydraulic shock absorber is  
5 disposed in a side wall of the damper cylinder.

8. A hydraulic shock absorbing apparatus of a vehicle according to claim 4, wherein the oil passage of the one hydraulic shock absorber is disposed in a side wall of the damper cylinder.

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9. A hydraulic shock absorbing apparatus of a vehicle according to claim 1, wherein the oil passage of the one hydraulic shock absorber is disposed in a guide member for guiding the piston rod.

15 10. A hydraulic shock absorbing apparatus of a vehicle according to claim 2, wherein the oil passage of the one hydraulic shock absorber is disposed in a guide member for guiding the piston rod.

11. A hydraulic shock absorbing apparatus of a vehicle according to  
20 claim 3, wherein the oil passage of the one hydraulic shock absorber is disposed in a guide member for guiding the piston rod.

12. A hydraulic shock absorbing apparatus of a vehicle according to claim 4, wherein the oil passage of the one hydraulic shock absorber is  
25 disposed in a guide member for guiding the piston rod.